

ABSTRACT

[0032] The rubber compositions described herein have been found to have an exceptionally long life as a spring-biased actuator diaphragm material that maintains its position compressed, *e.g.*, bolted, between opposed flanges, while maintaining excellent compressibility, low temperature flexibility, hydrocarbon resistance, abrasion resistance and mechanical strength. The compositions include a copolymer rubber component; a plasticizer for the copolymer rubber; a vulcanizing agent for the copolymer rubber; a silica filler; and a coupling agent, such as a silane coupling agent, capable of coupling the silica filler to the copolymer rubber. Ranges may be expressed herein as from "about" or "approximately" on particular value and/or to "about" or "approximately" another particular value. When such a range is expressed, another embodiment includes from the one particular value and/or to the other particular value.